HUMMERVOLL INDUSTRIBELEGG

# Safety Data Sheet

## prepared to UN GHS Revision 3

## 1. Identification of the Substance/Mixture and the Company/Undertaking

**1.1 Product Identifier** H225-0-901

**Revision Date:** 28/08/2019

**Product Name:** HI EP DECK COAT/FLEX COAT/ DECK TOPCOAT/FLEX TOPCOAT PART B

**Supercedes Date:** 28/05/2018

**Version Number:** 4

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Hardener for 2 components coatings - Industrial use. Advised against: Please see Technical Data Sheet.

**1.3 Details of the supplier of the safety data sheet**

**Importer:** None

**Manufacturer:**

Hummervoll Industribelegg A/S
Sanddalsringen 3
N-5225 NESTTUN
Norway

Regulatory / Technical Information:
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**1.4 Emergency telephone number:**

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## 2. Hazard Identification

**2.1 Classification of the substance or mixture**

Acute Toxicity, Inhalation, category 4
Acute Toxicity, Oral, category 4
Hazardous to the aquatic environment, Chronic, category 3
Skin Corrosion, category 1B
Skin Sensitizer, category 1

### 2.2 Label elements

**Symbol(s) of Product**

**Signal Word**

Danger

**Named Chemicals on Label**

salicylic acid, Benzyl alcohol, benzene-1,3-dimethanamine, 3-Aminomethyl-3,5,5-trimethylcyclohexylamine, phenol, styrenated, phenol, methylstyrenated

**HAZARD STATEMENTS**

| | | |
|---|---|---|
| Acute Toxicity, Oral, category 4 | H302 | Harmful if swallowed. |
| Skin Corrosion, category 1B | H314-1B | Causes severe skin burns and eye damage. |
| Skin Sensitizer, category 1 | H317 | May cause an allergic skin reaction. |
| Acute Toxicity, Inhalation, category 4 | H332 | Harmful if inhaled. |
| Hazardous to the aquatic environment, Chronic, category 3 | H412 | Harmful to aquatic life with long lasting effects. |

**PRECAUTION PHRASES**

| | |
|---|---|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/ face protection. |
| P301+310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P303+361+353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304+340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P305+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. |

### 2.3 Other hazards

No Information

**Results of PBT and vPvB assessment:**

The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

## 3. Composition/Information On Ingredients

### 3.2 Mixtures

**Hazardous Ingredients**

| CAS-No. | Chemical Name | % |
|---|---|---|
| 100-51-6 | Benzyl alcohol | 25 - <50 |
| 2855-13-2 | 3-Aminomethyl-3,5,5-trimethylcyclohexylamine | 10 - <25 |
| 1477-55-0 | benzene-1,3-dimethanamine | 10 - <25 |
| 68512-30-1 | phenol, methylstyrenated | 10 - <25 |
| 69-72-7 | salicylic acid | 2.5 - <10 |
| 61788-44-1 | phenol, styrenated | 2.5 - <10 |

| CAS-No. | GHS Symbols | GHS Hazard Statements | M-Factors |
|---|---|---|---|
| 100-51-6 | GHS07 | H302-319-332 | 0 |
| 2855-13-2 | GHS05-GHS07 | H302-312-314-317-412 | 0 |
| 1477-55-0 | GHS05-GHS07 | H302-314-317-332-412 | 0 |

| | | | |
|---|---|---|---|
| 68512-30-1 | GHS07 | H315-317-412 | 0 |
| 69-72-7 | GHS05-GHS07 | H302-318 | 0 |
| 61788-44-1 | GHS07-GHS09 | H315-317-411 | 0 |

**Additional Information:** The text for GHS Hazard Statements shown above (if any) is given in Section 16.

## 4. First-aid Measures

### 4.1 Description of First Aid Measures

**GENERAL NOTES:** Show this safety data sheet to the doctor in attendance.
**AFTER INHALATION:** Move to fresh air. Provide fresh air, rest and warmth. Call a physician immediately. Give oxygen or artificial respiration if needed. When risk of unconsciousness, place and transport the victim in secured recovery position.
**AFTER SKIN CONTACT:** Use a mild soap if available. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Do not use solvent or thinners to clean skin.
**AFTER EYE CONTACT:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Consult a physician.
**AFTER INGESTION:** If vomiting occurs spontaneously: Keep head below hips to prevent aspiration of stomach vomit into lungs. Provide fresh air, rest and warmth. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

**Self protection of the first aider:**

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed

Causes burns. May cause sensitization by skin contact. Harmful by inhalation and if swallowed. Causes serious eye damage.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11. When symptoms persist or in all cases of doubt seek medical advice.

## 5. Fire-fighting Measures

### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

**FOR SAFETY REASONS NOT TO BE USED:** Alcohol, Alcohol based solutions, any other media not listed above. Do not use a solid water stream as it may scatter and spread fire.

### 5.2 Special hazards arising from the substance or mixture

Heating or fire conditions liberates toxic gas. As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Vapours may form explosive mixtures with air. Solvent vapours are heavier than air and may spread along floors and ignite.

### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Keep containers and surroundings cool with water spray.

## 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition.

### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

### 6.3 Methods and material for containment and cleaning up

Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Clean with detergents. Avoid solvents.

### 6.4 Reference to other sections

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

## 7. Handling and Storage

### 7.1 Precautions for safe handling

**INSTRUCTIONS FOR SAFE HANDLING:** Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Electrical equipment should be protected to the appropriate standard. Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Open drum carefully as content may be under pressure. Do not breathe vapours or spray mist. Use only explosion-proof equipment. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. Apply technical measures to comply with the occupational exposure limits (see section 8).
**PROTECTION AND HYGIENE MEASURES:** Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke.

### 7.2 Conditions for safe storage, including any incompatibilities

**CONDITIONS TO AVOID:** Avoid heat, sparks, flames and other ignition sources.
**STORAGE CONDITIONS:** Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. Keep container closed. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store away from: oxidising materials, acids, and alkalis. Store in upright position only. Storage of corrosive material.

### 7.3 Specific end use(s)

No specific advice for end use available.

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

**Ingredients with Occupational Exposure Limits**
**(UK WELS)**

| Name | CAS-No. | LTEL ppm | STEL ppm | STEL mg/m3 | LTEL mg/m3 |
|---|---|---|---|---|---|
| Benzyl alcohol | 100-51-6 | | | | |
| 3-Aminomethyl-3,5,5-trimethylcyclohexylamine | 2855-13-2 | | | | |
| benzene-1,3-dimethanamine | 1477-55-0 | | | | |
| phenol, methylstyrenated | 68512-30-1 | | | | |
| salicylic acid | 69-72-7 | | | | |
| phenol, styrenated | 61788-44-1 | | | | |

| Name | CAS-No. | OEL Note |
|---|---|---|
| Benzyl alcohol | 100-51-6 | |
| 3-Aminomethyl-3,5,5-trimethylcyclohexylamine | 2855-13-2 | |
| benzene-1,3-dimethanamine | 1477-55-0 | |
| phenol, methylstyrenated | 68512-30-1 | |
| salicylic acid | 69-72-7 | |
| phenol, styrenated | 61788-44-1 | |

**FURTHER INFORMATION:** Refer to the regulatory exposure limits for the workforce enforced in each country.

### 8.2 Exposure controls

**Personal Protection**

**RESPIRATORY PROTECTION:** Use compressed air or fresh air breathing apparatus in closed compartments. Wear respiratory protection with combination filter (dust and gas filter, EN 14387:2004+A1:2008) during spraying operations: Gas filter type A2 (organic substances). Dust filter P3 (for fine dust).

**EYE PROTECTION:** Safety glasses with side-shields conforming to EN 166.

**HAND PROTECTION:** Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Long sleeved clothing. Remove and wash contaminated clothing before re-use. Use chemical resistant gloves and lotions and barrier creams to prevent drying of the skin. Protective gloves complying with EN 374: Butyl rubber. Nitril rubber. Recommended glove material for mixed product: Protective gloves complying with EN 374: Butyl rubber. Nitril rubber.

**OTHER PROTECTIVE EQUIPMENT:** Ensure that eyewash stations and safety showers are close to the workstation location.

**ENGINEERING CONTROLS:** Ensure adequate ventilation, especially in confined areas.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Appearance:** | Pale yellow |
| **Physical State** | Liquid |
| **Odor** | Amine |
| **Odor threshold** | Not determined |
| **pH** | 11 - 12 |
| **Melting point / freezing point (°C)** | Not determined |
| **Boiling point/range (°C)** | >200 |
| **Flash Point, (°C)** | 114 |
| **Evaporation rate** | Not determined |
| **Flammability (solid, gas)** | Not determined |
| **Upper/lower flammability or explosive limits** | Not determined |
| **Vapour Pressure** | Not determined |
| **Vapour density** | Not determined |
| **Relative density** | Not determined |
| **Solubility in / Miscibility with water** | Negligible |
| **Partition coefficient: n-octanol/water** | Not determined |
| **Auto-ignition temperature (°C)** | Not determined |
| **Decomposition temperature (°C)** | Not determined |
| **Viscosity** | 83 - 103 KU |
| **Explosive properties** | Not determined |
| **Oxidising properties** | Not determined |

### 9.2 Other information

| | |
|---|---|
| **VOC Content g/l:** | 0 |
| **Specific Gravity (g/cm3)** | 1.07 |

## 10. Stability and Reactivity

**10.1 Reactivity**
No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**
Stable under normal conditions.

**10.3 Possibility of hazardous reactions**
No Information

**10.4 Conditions to avoid**
Avoid heat, sparks, flames and other ignition sources.

**10.5 Incompatible materials**
Keep away from strong oxidising agents and strongly acid or alkaline materials.

**10.6 Hazardous decomposition products**
In case of fire or hot work operations, hazardous decomposition products may be formed such as:Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), aliphatic amines, aldehydes, cyanides.

## 11. Toxicological Information

**11.1 Information on toxicological effects**

**Acute Toxicity:**

**Oral LD50:** No information available on the product itself as the product is not tested.

**Inhalation LC50:** No information available on the product itself as the product is not tested.

**Irritation:** Vapour/spray mist may irritate respiratory system and lungs.

**Corrosivity:** Corrosive to eyes and skin.

**Sensitization:** May cause an allergic skin reaction.

**Repeated dose toxicity:** No information available.

**Carcinogenicity:** No information available.

**Mutagenicity:** No information available.

**Toxicity for reproduction:** No information available.

**STOT-single exposure:** No information available.

**STOT-repeated exposure:** No information available.

**Aspiration hazard:** No information available.

**If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:**

| CAS-No. | Chemical Name | Oral LD50 | Dermal LD50 | Vapor LC50 | Gas LC50 | Dust/Mist LC50 |
|---|---|---|---|---|---|---|
| 100-51-6 | Benzyl alcohol | 1620 mg/kg rat | 2980 mg/kg, rabbit | No information | No information | >4.178 mg/L (4h/rat, mist) |
| 2855-13-2 | 3-Aminomethyl-3,5,5-trimethylcyclohexylamine | 1030 mg/kg (oral-rat) | 1840 mg/kg (dermal-rabbit) | No information | No information | No information |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1477-55-0 | benzene-1,3-dimethanamine | 1514 mg/kg (oral) | >2000 mg/kg | No information | No information | No information |
| 68512-30-1 | phenol, methylstyrenated | >2000 mg/kg (oral-rat) | >2000 mg/kg (dermal-rat) | No information | No information | No information |
| 69-72-7 | salicylic acid | 891 mg/kg (oral-rat) | >2000 mg/kg (dermal-rat) | 900 mg/m³ (1 hr-inh-rat) | No information | No information |
| 61788-44-1 | phenol, styrenated | >2000 mg/kg (Oral-rat) | >2000 mg/kg (Dermal-rat) | No information | No information | No information |

**Additional Information:**

Corrosive - causes irreversible eye damage. Inhalation of vapour or mist can cause headache, nausea, irritation of nose, throat, and lungs. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Corrosive to skin.

## 12. Ecological Information

**12.1 Toxicity:**

**EC50 48hr (Daphnia):** No information

**IC50 72hr (Algae):** No information

**LC50 96hr (fish):** No information

**12.2 Persistence and degradability:** No information

**12.3 Bioaccumulative potential:** No information

**12.4 Mobility in soil:** No information

**12.5 Results of PBT and vPvB assessment:** The product does not meet the criteria for PBT/vPvB in accordance with Annex XIII.

**12.6 Other adverse effects:** No information

| CAS-No. | Chemical Name | EC50 48hr | IC50 72hr | LC50 96hr |
|---|---|---|---|---|
| 100-51-6 | Benzyl alcohol | 400 mg/L (daphnia magna) | 700 mg/L (algae) | 10 mg/L (fish) |
| 2855-13-2 | 3-Aminomethyl-3,5,5-trimethylcyclohexylamine | 23 mg/L | No information | 110 mg/L |
| 1477-55-0 | benzene-1,3-dimethanamine | 16 mg/L (Daphnia) | 12 mg/l /EC50, 72h, Scenedesmus Subspicatus) | >100 mg/L (Leuciscus idus) |
| 68512-30-1 | phenol, methylstyrenated | 14 - 51 mg/L (daphnia) | 15 mg/L (algae) | 25.8 mg/L (fish) |
| 69-72-7 | salicylic acid | 870 mg/L (daphnia) | >100 mg/L (algae) | 1380 mg/L (fish) |
| 61788-44-1 | phenol, styrenated | 1-10 mg/L (EL50, daphnia) | 3.14 mg/L (EL50, algae) | No information |

## 13. Disposal Considerations

**13.1 WASTE TREATMENT METHODS:** Do not burn, or use a cutting torch on, the empty drum. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local state, and federal regulations. Do not dispose of waste with normal garbage, or to sewer systems.

## 14. Transport Information

| | | |
|---|---|---|
| 14.1 | UN number | UN2735 |
| 14.2 | UN proper shipping name | AMINES, LIQUID, CORROSIVE, N.O.S. (isophoronediamine, benzene-1,3-dimethanamine) |
| | Technical name | Isophoronediamine, benzene-1,3-dimethanamine |
| 14.3 | Transport hazard class(es) | 8 |
| | Subsidiary shipping hazard | Not applicable |
| 14.4 | Packing group | II |
| 14.5 | Environmental hazards | Marine pollutant: No |
| 14.6 | Special precautions for user | Not applicable |
| | EmS-No.: | F-A , S-B |
| 14.7 | Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code | Not applicable |

## 15. Regulatory Information

15.1 **Safety, health and environmental regulations/legislation for the substance or mixture:**

**National Regulations:**

| | |
|---|---|
| **Denmark Product Registration Number:** | Not available |
| **Danish MAL Code:** | Not available |
| **Danish MAL Code - Mixture:** | Not available |
| **Sweden Product Registration Number:** | Not available |
| **Norway Product Registration Number:** | P-94456 |
| **WGK Class:** | 3 |

15.2 **Chemical Safety Assessment:**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## 16. Other Information

**Text for GHS Hazard Statements shown in Section 3 describing each ingredient:**

| | |
|---|---|
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

**Reasons for revision**

Changes have been made to Section 1 of the Safety Data Sheet (SDS). Please refer to the Identification information in Section 1 of this SDS. Changes have been made to Section 3 of the

Safety Data Sheet (SDS). Please refer to the Composition / Information on Ingredients in Section 3 of this SDS. Changes have been made to Section 8 of the Safety Data Sheet (SDS). Please refer to the Exposure Controls / Personal Protection information in Section 8 of the SDS. Changes have been made to Section 11 of the Safety Data Sheet (SDS). Please refer to the Toxicological Information in Section 11 of this SDS. Changes have been made to Section 15 of the Safety Data Sheet (SDS). Please refer to the Regulatory Information in Section 15 of this SDS. .

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark;
European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830;
European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP);
EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

Acronym & Abbreviation Key:

| | |
|---|---|
| CLP | Classification, Labeling & Packaging Regulation |
| EC | European Commission |
| EU | European Union |
| US | United States |
| CAS | Chemical Abstract Service |
| EINECS | European Inventory of Existing Chemical Substances |
| REACH | Registration, Evaluation, Authorization of Chemicals Regulation |
| GHS | Globally Harmonized System of Classification and Labeling of Chemicals |
| LTEL | Long term exposure limit |
| STEL | Short term exposure limit |
| OEL | Occupational exposure limit |
| ppm | Parts per million |
| mg/m3 | Milligrams per cubic meter |
| TLV | Threshold Limit Value |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| OSHA | Occupational Safety & Health Administration |
| PEL | Permissible Exposure Limits |
| VOC | Volatile organic compounds |
| g/l | Grams per liter |
| mg/kg | Milligrams per kilogram |
| N/A | Not applicable |
| LD50 | Lethal dose at 50% |
| LC50 | Lethal concentration at 50% |
| EC50 | Half maximal effective concentration |
| IC50 | Half maximal inhibitory concentration |
| PBT | Persistent bioaccumulative toxic chemical |
| vPvB | Very persistent and very bioaccumulative |
| EEC | European Economic Community |
| ADR | International Transport of Dangerous Goods by Road |
| RID | International Transport of Dangerous Goods by Rail |
| UN | United Nations |
| IMDG | International Maritime Dangerous Goods Code |
| IATA | International Air Transport Association |
| MARPOL | International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 |
| IBC | International Bulk Container |
| RTI | Respiratory Tract Irritation |
| NE | Narcotic Effects |

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.